SUPERIOR OPERATING INSTRUCTIONS FOR 1240 TUBE TESTER

To use the 1240 Tube Tester, plug line cord into 105-125 volt 60 cycle A.C. line, insert tube in proper socket and turn the **LOAD** control to the point designated on the tube chart. Next, the **FILAMENT** switch is turned to the correct voltage. Please note that two different voltage sources are obtainable at each position on the **FILAMENT** switch. The figures above each line indicate the higher voltage, the figures below the line indicate the lower voltage. It is, therefore, necessary to throw the snap button marked **"FIL."** to either the high or low position as desired. For instance, if a 6.3 voltage is required, the **"FIL."** snap switch is first pushed left to **"HIGH"** then the **FILAMENT** switch is turned to the 6.3/5.0 position. Next, throw snap buttons marked **"PRI."** left to **"HIGH"** position, **"QUALITY-LEAKAGE"** left to **"QUALITY"** side and snap button marked **"POWER"** left to **"ON"** position.

CAUTION: **IT IS IMPORTANT TO MAKE SURE THAT THE 10 SNAP BUTTONS MARKED A TO J RESPECTIVELY ARE THROWN IN THE "UP" OR TOWARDS THEIR RESPECTIVE LETTER DESIGNATIONS, BEFORE ANY TEST FOR EMISSION IS MADE. NOW THROW THE PROPER A-J SNAP SWITCH IN THE "DOWN" POSITION. (SOME TUBES USE MORE THAN ONE OF THESE SWITCHES, AS INDICATED ON TUBE CHART). THE TUBE IS NOW READY FOR TEST.**

After the tube has heated up for about 30 seconds, the emission rating of the tube will be indicated on the **BAD—GOOD** scale of the meter.

IMPORTANT — The **PRI.** snap button located on lower right of front panel is the **LINE VOLTAGE REGULATOR.** Since the voltage in most parts of the country varies between 110 to 120 Volts, the Model 1240 is designed to operate with the **PRI.** snap switch in the high position. However, in low voltage areas (100-110 Volts) it is necessary to throw the **PRI.** snap switch to the **LOW** position.

TO TEST THE TUBE FOR SHORTS OR LEAKAGES

It is important, first of all, to make sure that all the 10 snap buttons marked A to J respectively are thrown in the up, or towards their respective letter positions. Now throw the **"QUALITY-LEAKAGE"** snap button right to the **"LEAKAGE"** position and turn the **"LOAD"** control all the way over right to the 12 position. Next, throw the A to J snap buttons, **ONE AT A TIME**, first down and then up again. The neon should light only in positions B and J. If the neon lights on any buttons other than B and J, the tube is either shorted, or has a high resistance leak.

The A to J snap switches control the following elements:

A—Shield
B—100,000 ohms sensitivity test
C—Plate
D—Screen Grid
E—Grid
F—Sup. Grid
G—BLANK FOR FUTURE USE
H—Cathode
I—Top Cap.
J—1 Megohm sensitivity test.

CONDENSER LKG. TESTS

Paper—Mica Condensers

Shorted paper or mica condensers can be located by inserting any tube having a grid cap and setting same for emission test, and turning the **LOAD** control to the #12 position so that the tube reads "good." Remove the grid cap and put the condenser to be tested in series with the grid cap, i.e., one side of the condenser touches the cap of the tube and the other side to the grid lead coming from the Tube Tester. Good condensers will indicate a null or zero reading. Shorted condensers will have no effect on the meter reading, i.e., no change.

Electrolytic Condensers.

To test electrolytic condensers for shorts or polarity, use same procedure as for paper or mica condensers. If the polarity is correct the meter needle will gradually drop backwards. Shorted condensers will give the same indication as paper and mica condensers.

Digitized by the Internet Archive
in 2023 with funding from
Amateur Radio Digital Communications, Grant 151

https://archive.org/details/superior00unse

Type	Voltage	A-J	Load	Socket
1A4	2.0	I	6	1
1A5	1.5	E	4	4
1A6	2.0	F	6	3
1A7	1.5	E	6	4
1B4	2.0	I	6	1
1B5	2.0	H, F, D	6, 12, 12	3
1B7	1.4	E	6	4
1C5	1.5	E	4	4
1C6	2.0	F	6	3
1C7	2.0	E	6	4
1D5	2.0	I	6	4
1D7	2.0	E	6	4
1D8	1.4	E, I	6, 6	4
1E5	2.0	I	6	4
1E7	2.0	D, E	5, 5	4
1F4	2.0	D	5	2
1F5	2.0	E	5	4
1F6	2.0	I, H, F	5, 12, 12	3
1F7	2.0	I, D, E	5, 12, 12	4
1G4	1.5	E	6	4
1G5	2.0	E	6	4
1G6	1.5	D	6	4
1H4	2.0	E	6	4
1H5	1.5	I, E	4, 12	4
1H6	2.0	F, E, D	6, 12, 12	4
1J5	2.0	E	6	4
1J6	2.0	D, E	6, 6	4
1N5	1.5	I	4	4
1N6	1.4	E, F	6, 12	4
1P5	1.4	I	6	4
1Q5	1.5	E	3	4
2A3	2.5	H	2	1
2A5	2.5	F	3	3
2A6	2.5	I, D, F	3, 12, 12	3
2A7	2.5	F	3	5
2B7	2.5	I, E, F	3, 12, 12	5
2E5	2.5	F	12	3
2G5	2.5	F	12	3
2W3	2.5	D	5	1
2Y3	2.5	H, C	3, 3	1
2Z2	2.5	H	3	1
5T4	5.0	D, F	2, 2	4
5U4	5.0	D, F	2, 2	4
5V4	5.0	D, F	2, 2	4
5W4	5.0	D, F	3, 3	4
5X4	5.0	C, F	3, 3	9
5Y3	5.0	D, F	3, 3	4
5Y4	5.0	C, E	3, 3	9
5Z3	5.0	H, C	2, 2	1
5Z4	5.0	D, F	3, 3	4
6A3	6.3	H	3	1
6A4	6.3	D	3	2
6A5	6.3	E	2	4
6A6	6.3	F, D	2, 2	5
6A7	6.3	F	3	5
6A8	6.3	E	3	4
6AB5	6.3	F	12	3
6AB7	6.3	D	2	4
6AC5	6.3	E	3	4
6AC7	6.3	D	2	4
6AE5	6.3	E	3	4
6B4	6.3	E	2	4
6B5	6.3	F	10	3
6B6	6.3	I, D, F	3, 12, 12	4
6B7	6.3	I, F, E	3, 12, 12	5
6B8	6.3	I, D, E	3, 12, 12	4
6C5	6.3	E	3	4
6C6	6.3	I	3	3
6C7	6.3	I, F, E	3, 12, 12	5
6C8	6.3	I, E	3, 3	4
6D5	6.3	E	3	4
6D6	6.3	I	3	3
6D7	6.3	I	3	4
6D8	6.3	E	3	4
6E5	6.3	F	12	3
6E6	6.3	F, D	3, 3	5
6E7	6.3	I	3	5
6F5	6.3	I	3	4
6F6	6.3	E	3	4
6F7	6.3	I, F	3, 5	5
6F8	6.3	I, E	3, 3	4
6G5	6.3	D	12	3
6G6	6.3	E	3	4
6G7	6.3	I	3	4
6H4	6.3	D	12	4
6H5	6.3	F	12	3
6H6	6.3	E, C	12, 12	4
6H7	6.3	I, E	3, 6	4
6J5	6.3	E	3	4
6J7	6.3	I	3	4
6J8	6.3	I, E	3, 6	4
6K5	6.3	I	3	4
6K6	6.3	E	3	4
6K7	6.3	I	3	4
6K8	6.3	E	3	4
6L5	6.3	E	2	4
6L6	6.3	E	2	4
6L7	6.3	I	3	4
6N5	6.3	F	12	3
6N6	6.3	E	10	4
6N7	6.3	D, E	3, 3	4
6P5	6.3	E	3	4
6P7	6.3	I	3	4
6Q6	6.3	I, E, D	3, 12, 12	4
6Q7	6.3	I, D, E	3, 12, 12	4
6R7	6.3	I, D, E	3, 12, 12	4
6S7	6.3	I	3	4
6SA7	6.3	E	3	4
6SC7	6.3	C, D	3, 3	9
6SF5	6.3	C	3	9
6SJ7	6.3	D	3	4
6SK7	6.3	D	3	4
6SQ7	6.3	C, E, D	4, 12, 12	6
6T5	6.3	F	12	3
6T7	6.3	I, D, E	3, 12, 12	4
6U5	6.3	D	12	3
6U7	6.3	I	3	4
6V6	6.3	E	2	4
6V7	6.3	I, D, E	3, 12, 12	4
6W5	6.3	C, D	2, 2	4
6W7	6.3	I	3	4
6X5	6.3	C, E	2, 2	4
6Y5	6.3	H, C	2, 2	3
6Y6	6.3	E	2	4
6Y7	6.3	D, E	3, 3	4
6ZY5	6.3	C, E	3, 3	4
6Z4	6.3	C, D	2, 2	2
6Z7	6.3	D, E	3, 3	4
7A4	6.3	F	3	8
7A6	6.3	I, F	12, 12	8
7A7	6.3	F	3	8
7A8	6.3	D	3	8

Type	Voltage	A-J	Load	Socket
7C5	6.3	F	2	8
7C6	6.3	I, E, F	3, 12, 12	8
7B5	6.3	F	3	8
7B6	6.3	C, E, F	3, 12, 12	8
7B7	6.3	F	3	8
7B8	6.3	D	3	8
7E6	6.3	C, E, F	3, 12, 12	8
7Y4	6.3	I, F	3, 3	8
12A5	6.3	E	5	5
12A7	12.6	I, F	3, 5	5
12A8	12.6	E	3	4
12F5	12.6	I	3	4
12J5	12.6	E	3	4
12J7	12.6	I	3	4
12K7	12.6	I	3	4
12Q7	12.6	I, D, E	3, 12, 12	4
12SA7	12.6	E	4	4
12SC7	12.6	C, D	3, 3	9
12SF5	12.6	C	3	9
12SJ7	12.6	D	3	4
12SK7	12.6	D	3	4
12SQ7	12.6	C, E, D	4, 12, 12	6
12Z3	12.6	C	3	1
25A6	25.0	E	2	4
25A7	25.0	E, F	3, 3	4
25AC5	25.0	E	2	4
25B6	25.0	E	6	4
25L6	25.0	E	2	4
25Y5	25.0	C, H	2, 2	8
25Z3	25.0	H	2	1
25Z5	25.0	C, H	2, 2	3
25Z6	25.0	C, E	2, 2	4
35A5	25.0	F	2	8
35L6	25.0	E	2	4
35Z3	25.0	C	1	8
35Z4	25.0	E	2	4
45Z5	25.0	E	4	4
50L6	50.0	E	2	4
70L6	70.0	E, H	3, 3	4
117Z6	50.0	C, E	2, 2	4
G4	2.5	D, C	12, 12	2
G2S	2.5	H, F	6, 6	2
G84	2.5	H	3	1
H	5.0	H	6	1
HY113	1.4	D	8	10
HY114	1.4	I	6	4
HY115	1.4	D	8	10
HY125	1.4	D	8	10
HY615	6.3	I	3	4
KR20	6.3	F	3	3
KR22	2.5	F	3	3
LA	6.3	D	3	1
PZ	2.5	D	3	1
00	5.0	H	6	1
00A	5.0	H	6	1
01A	5.0	H	6	1
1V	6.3	C	3	1
2S	2.5	H, F	6, 6	2
5S	2.5	H	6, 6	2
10	7.5	H	2	1
12	5.0	H	5	1
12A	5.0	H	4	1
13	5.0	H, C	6, 6	1
14	12.6	I	3	2
15	2.0	I	6	2
16	5.0	C	6	1
17	12.6	D	3	2
18	12.6	F	3	3
19	2.0	F, D	5, 5	3
20	3.3	H	6	1
22	3.3	I	6	1
25	2.0	H, F, D	6, 12, 12	3
24	2.5	I	3	2
24A	2.5	I	3	2
26	1.5	H	5	1
27	2.5	D	3	2
89	6.3	I	3	3
90	2.5	F	4	3
91	2.5	F	4	3
92	2.5	F	4	3
96	6.3	D, C	4, 4	1
98	6.3	D, C	4, 4	2
99	3.3	H	10	1
182A	5.0	H	3	1
183	5.0	H	3	1
482A	5.0	H	3	1
483	5.0	H	3	1
484	3.3	D	3	2
485	3.3	D	3	2
486	3.3	H	3	2
585	7.5	H	3	1
586	7.5	H	3	1
950	2.0	D	6	2
951	2.0	I	6	1
1221	6.3	I	3	3
1223	6.3	I	3	4
1231	6.3	F	2	8
1612	6.3	I	3	4
1851	6.3	I	2	4
000	6.3	I	2	3
7700	6.3	I	3	3
29	2.5	F	4	3
30	2.0	H	6	1
31	2.0	H	5	1
32	2.0	H	6	1
33	2.0	D	6	2
34	2.0	D	6	1
35	2.5	I	3	2
36	6.3	I	4	2
37	6.3	D	4	2
38	6.3	I	3	2
39	6.3	I	4	2
40	5.0	H	4	1
41	6.3	F	3	3
42	6.3	F	3	3
43	25.0	F	2	3
44	6.3	I	4	2
45	2.5	H	3	1
46	2.5	D	3	2
47	2.5	D	3	2
48	25.0	F	6	3
49	2.0	D	6	2
50	7.5	H	3	1
51	2.5	I	3	2
52	6.3	D	3	2
53	2.5	F, D	3, 3	5
55	2.5	I, F, D	3, 12, 12	3
56	2.5	D	3	2
57	2.5	I	3	3
58	2.5	I	3	3
59	2.5	E	3	5
71A	5.0	H	4	1

Type	Voltage	A-J	Load	Socket	Type	Voltage	A-J	Load	Socket	Type	Voltage	A-J	Load	Socket
75	6.3	I, D, F	3, 12, 12	3										
76	6.3	D	3	2										
77	6.3	I	3	3										
78	6.3	I	3	3										
79	6.3	I, D	3, 3	3										
80	5.0	H, C	4, 4	1										
81	7.5	C	4	1										
82	2.5	H, C	3, 3	1										
83	5.0	H, C	3, 3	1										
83V	5.0	H, C	3, 3	1										
84	6.3	C, D	2, 2	2										
85	6.3	I, F, D	3, 12, 12	3										
88	6.3	H, C	4, 4	1										

TO TEST THE OZ4 — PLACE TUBE IN SOCKET #4 AND THROW BUTTON "H". THE FILAMENT VOLTAGE SWITCH AND THE LOAD CONTROL MAY BE LEFT IN ANY POSITION. IF METER NEEDLE MOVES BACKWARDS THE TUBE IS **GOOD.** IF METER NEEDLE REMAINS STATIONARY THE TUBE IS **BAD.**